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	Application No.	Applicant(s)	
Notice of Allowability	09/829,296	KAITO ET AL.	
	Examiner	Art Unit	
	Dah-Wei D. Yuan	1745	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED ir 5) or other appropriate commu RIGHTS. This application is s	nthis application. If not included unication will be mailed in due cou	ırse. THIS
1. This communication is responsive to <u>2/20/04</u> .			
2. The allowed claim(s) is/are <u>1-12</u> .			
3. \boxtimes The drawings filed on <u>09 April 2001</u> are accepted by the	Examiner.		
 4.	ve been received. ve been received in Application documents have been received. The of this communication to file and the important of the attached EXT of the attached EXT of the submitted. The of the submitted decrease of the important of the header according to 37 Classic of BIOLOGICAL MAT	on No In this national stage application In this national stage application In a reply complying with the require AMINER'S AMENDMENT or NOT redeclaration is deficient. In the Office action of the drawings in the front (not the base 1.121(d). ERIAL must be submitted. Not	rements TICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposi of Biological Material	6. Interview S Paper No. 3/08), 7. Examiner's	nformal Patent Application (PTO-1 summary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowa	

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Art Unit: 1745

NON-AQUEOUS ELECTROLYTE RECHARGEABLE BATTERY

Examiner: Yuan

S.N. 09/829,296

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March 31, 2004

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 20, 2004 has been entered. Claims 1,2,6 were amended. Claims 8-12 were added.
- 2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action issued on July 15, 2003.

Examiner's Amendment

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Mr. Herbert F. Ruschmann on March 31, 2004. The application has been amended as follows:

 In claim 1, line 7, after "attached" add "externally"

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Claim Rejections

5. The claim rejections under 35 U.S.C. 102(e) as anticipated by Quinn et al. on claims 1-3 are withdrawn because the independent claim 1 has been amended.

Reasons for Allowance

Claims 1-12 are allowed. The invention of independent claim 1 recites a non-aqueous 6. electrolyte rechargeable battery comprising a positive electrode, a negative electrode, a battery case, a switch element attached externally to the battery case, wherein the switch element completing a charging path to an external power source in the initial state of operation in response to a first change in temperature of the battery and establishing a short circuit across the positive electrode and the negative electrode in a second state of operation, the switch element further operating to return to the initial state in response to a second change in temperature of the battery opposing that of said first change in temperature. The closest prior art of record, Quinn et al., only teaches the use of a switch element having closed and open positions in response to either an elevated temperature or an excessive pressure within a battery. The switch is a bimetal material or shape memory, which connects a terminal plate and a fixed contact in response to an elevated temperature as shown in Figures 22-24. The invention of independent claims 4 and 5 recites a non-aqueous electrolyte rechargeable battery comprising an electrode of first polarity, an electrode of second polarity, a battery case, and a closure assembly including an external terminal, an internal terminal, a switch element and a ring shaped conductive element. The switch element is responsive to a first temperature change to break connection to the external

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terminal and effect electrical contact with the ring shaped conducive element to establish a second state of operation, breaking electrical connection between the battery and an external power source and establishing a short circuit to cause the battery to discharge. The closest prior art of record, Quinn et al., does not teach the switch element is responsive to a first temperature change by breaking connection to the external terminal and effect electrical contact with the ring shaped conductive element to establish a second state of operation, breaking electrical connection between the battery and an external power source and establishing a short circuit to cause the battery to discharge as stated in the claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (571) 272-1295. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dah-Wei D. Yuan March 31, 2004 Delive y